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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/661,523	09/15/2003	Terukazu Kokubo	242596US0DIV	8019
	90 11/03/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			MAI, NGOCLAN THI	
ALEXANDRIA	, VA 22314		ART UNIT	PAPER NUMBER
			1742	

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/661,523	KOKUBO ET AL.
Office Action Summary	Examiner	Art Unit
71	Ngoclan T. Mai	1742
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period will reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fr	e timely filed days will be considered timely. om the mailing date of this communication.
Status		
1)⊠ Responsive to communication(s) filed on 10 Au	iaust 2004	
- · · · · ·	action is non-final.	
3) Since this application is in condition for allowan	ce except for formal matters in	Prosecution as to the marite in
closed in accordance with the practice under Ex	x parte Quavle, 1935 C.D. 11	453 O G 213
Disposition of Claims	,	100 0.0.210.
4) Claim(s) <u>1,4-9 and 16-18</u> is/are pending in the a		
4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.	in from consideration.	
6)⊠ Claim(s) <u>1</u> is/are rejected.		
7)⊠ Claim(s) <u>4-9 and 16-18</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or	alastis a series	
are subject to restriction and/or	election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by the	Examiner
Applicant may not request that any objection to the dr	rawing(s) be held in abevance Se	26 37 CER 1 85(a)
Replacement drawing sheet(s) including the correctio	n is required if the drawing(s) is of	hierted to Soc 37 CEB 1 131/4)
11)☐ The oath or declaration is objected to by the Exa	miner. Note the attached Office	e Action or form PTO 152
		5 / ISLIGHT 61 IOIII 1 10-102.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. § 119(a	a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents i	have been received.	
2. Certified copies of the priority documents to	have been received in Applicat	ion No
3. ☐ Copies of the certified copies of the priority	y documents have been receiv	ed in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list of	the certified copies not receive	ed.
ttachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summarv	(PTO-413)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate
Notice of References Cited (PTO-892)	Paper No(s)/Mail Da	r (PTO-413) ate Patent Application (PTO-152)

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hultman et al.

Hultman et al discloses spherical porous iron powder having an average particle diameter between 10 and 250 μ m, a specific surface area as measure by a BET instrument of at least 100 m²/kg (0.1x10³ m²/kg) and oxygen content preferably less than 0.75% by weight (Col. 3, lines 16-32). Hultman et al teaches that the powder consists essentially of pure (metallic) iron having saturation magnetization above 190 emu/g, preferably above 200 emu/g. In example 1 Hultman et al disclose spherical agglomerates of 10 –150 μ m in diameter, having saturation magnetization of 206

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emu/g, surface area of 513 m²/kg and apparent density of 2.2 g/cc. Since it is known that 1 emu/cc = 4π x 10-4 Wb/m², the saturation magnetization of iron powder in Example 1 is converted to have Wb/m² unit for comparison by taking 206 emu/g x 2.2 g/cc (apparent density of the powder) x 4π x10⁻⁴ Wb/m²/emu/cc, the result becomes 0.5695 Wb/m².

Since the spherical pure iron powder taught by Hultman et al meets the claimed limitations such as particle diameter, BET surface area, oxygen content, and saturation magnetization, it appears the claimed properties such as sulfur and carbon content both less than 0.1% by mass and coefficient of variation of the particle diameter at most 50% are material property. Consequently, the properties as recited in the instant claims would have inherently possessed by the teachings of the cited reference. Therefore, the burden is on the applicant to prove that the product of the prior art does not necessarily or inherently possess characteristics attributed to the claimed product. In re Spade, 911 F.2d 705, 708, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990), In re Best, 195 USPQ 430 and MPEP § 2112.01.

Alternatively, where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established, In re Best, 195 USPQ 430, 433 (CCPA 1977). When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are

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not.' In re Spada, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 195 USPQ 430, 433 (CCPA I 977).

4. Claims 4-9 and 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Allowable Subject Matter

5. The following is a statement of reasons for the indication of allowable subject matter: Hultman et al discloses the claimed metal powder comprising iron particle having the claimed properties. The metal powder are taught by used as reducing agent, catalysts, extraction media for cementation process and carriers for toner particles in electrophotography, see col. 5, lines 11-29. There is no teaching in this reference or in any the cited prior art or there is any reason or motivation to coat the claimed powder with a high conductive metal.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 7:30-4:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngoclan T. Mai Primary Examiner Art Unit 1742

n.m.